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Substitute Specification  
Application Serial No. 10/758,933  
Docket No.: 81088-306168

THE INVENTION

DC POWER SOURCE DETERMINATION CIRCUITRY FOR USE WITH AN ADAPTER

BACKGROUND OF THE INVENTION

1. Technical Field

This invention relates to DC power adapters for powering electronic devices.

2. Description of the Related Arts

There are power systems in the art which allow a user to hook up a DC/DC adapter to an automobile outlet, to supply regulated DC power to power an electronic device, such as a notebook computer. Automobile outlets typically provide a DC voltage in a range between 11.0 and 14.1 Volts. Some power systems also allow the user to hook up the DC/DC adapter to an airplane output such as an EMPOWER system, EMPOWER being a line of products sold by Astronics Advanced Electronic Systems for providing power to aircraft seats. An EMPOWER system typically provides a DC voltage in a range between 14.5 and 15.5 Volts.

Accordingly, some DC/DC adapters can be used with both an automobile outlet and the EMPOWER system to provide a regulated DC power to the electronic device such as the notebook computer. Notebook computers often contain lithium ion batteries. Such batteries can be recharged when the notebook computer is hooked up to the DC/DC adapter. For example, if the user is in a car, the user can couple a DC/DC adapter to the notebook computer and to the cigarette lighter outlet to power the notebook computer. The batteries in the notebook computer will draw some of the DC power supplied to recharge the batteries of the notebook computer if they are low in power. Accordingly, the user can simultaneously use the notebook computer and recharge the batteries therein.